

CLAIMS:

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SECRET

1. A wire-bound telecommunication device comprising terminals for coupling the device to a subscriber line of a telecommunication network, a transmission circuit, and a signal energy detecting arrangement, characterised in that the signal energy detecting arrangement comprises means for determining a time-domain signal representing the signal energy of a signal on the subscriber line in a predetermined time interval.
2. A wire-bound telecommunication device as claimed in claim 1, wherein the signal energy is determined cyclically.
3. A wire-bound telecommunication device as claimed in claim 1, wherein the signal energy determination is initiated by a trigger pulse.
4. A wire-bound telecommunication device as claimed in claims 1, 2 or 3, wherein the telecommunication device operates according to a given signal protocol, the signal energy being determined during at least one predetermined expected signal interval.
5. A wire-bound telecommunication device as claimed in claim 4, wherein the signal protocol is a caller identification signal protocol and the expected signal interval comprises a tone alerting signal.
6. A wire-bound telecommunication device as claimed in claim 5, wherein the signal energy determination is continued until a further expected signal interval comprising a caller identification signal.
7. A wire-bound telecommunication device as claimed in claim 6, wherein a caller identification signal detector is initiated by an initiating pulse which is generated a predetermined time after the detection of the tone alerting.
8. A wire-bound telecommunication device as claimed in claim 7, wherein the initiation pulse controls switching of an impedance parallel to the subscriber line.
9. A wire-bound telecommunication device as claimed in claim 1, wherein the energy determination is used for monitoring subscriber line load variations.
10. A circuit for use in a wire-bound telecommunication device comprising terminals for coupling the device to a subscriber line of a telecommunication network and a transmission circuit, the circuit comprising a signal energy detecting arrangement, characterised in that the signal energy detecting arrangement comprises means for

Claim 1

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~~determining the signal energy in a predetermined time interval.~~